

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/000448

A. CLASSIFICATION OF SUBJECT MATTER
IntCl.⁷ B32B 15/08, H05K1/03, 3/18, 3/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IntCl.⁷ B32B 15/08, H05K1/03, 3/18, 3/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | JP 1-133729 A (Nitto Denko corporation) 1989.05.25 Claims, upper right-hand section, lower left-hand section in page3 (family: none) | 1-7 |
| X | JP 11-268183 A (Mitsui Chemicals Inc.) 1999.10.05 Claims, paragraph [0028], [0041] (family: none) | 1-7 |
| X | JP 2001-277424 A (Mitsubishi Shindo Co. Ltd) 2001.10.09 Claims, paragraph [0027], [0028] & WO 2001/074585 A1 & US 2003/0148078 A1 | 1-7 |
| X | JP 11-158276 A (UBE Industries, Ltd) 1999.06.15 | 1-8 |

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
07.04.2005

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|---|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | Claims, paragraph [0023] & EP 919593 A1 & US 6129982 A JP 2002-208768 A(Hitachi Ltd.)2002.07.26 Claims (family: none) | 1-8 |